MOTOROLA

English

Out of the Box Provisioning Over Wi-Fi®

The following sections describe the configuration and procedures for programming a Wi-Fi enabled radio, which has been ordered with the Out of the Box Wi-Fi Provisioning option (QA09007).

Basic Setup Requirements

For Out of the Box Provisioning over Wi-Fi, there are some basic assumptions:

1 The personnel responsible for radio provisioning must have basic knowledge of the Radio Management (RM) System. This basic knowledge includes an understanding of the computer network topology of the Radio Management Server (RMS), Device Programmer (DP) and other components of the Radio Management System. Please refer to the 'Getting Started with Radio Management' topic in the Tutorials menu in the CPS Help.

2 A Wi-Fi router is required for connecting the Wi-Fi capable radio to the Device Programmer. The Wi-Fi router is to be procured by the agency programming the radios and must be provisioned with the Network SSID set to "MyNetwork" (case sensitive) with no password enabled.

Codeplug Default Configurations

A radio ordered with the Wi-Fi option and the Out of the Box Provisioning over Wi-Fi option will come with the following default codeplug configuration relative to Wi-Fi:

a. Wi-Fi will be enabled.

b. There will be one pre-configured network with the Network SSID set to "MyNetwork" and security type will be set to "None".

c. The default state of Wi-Fi will be "on".

Procedure for connecting a radio to a Wi-Fi access point

Remove the radio from the box, insert a battery and turn the radio on. After power up, the radio shall scan for the pre-provisioned access point with the name "MyNetwork". If "MyNetwork" cannot be found, the radio will display "No Wi-Fi Service". If "MyNetwork" is found, the radio shall connect and present ergonomic indications in the form of display and an icon. For the ergonomics pertaining to specific models of radio, such as differences between models with front display and models with top display only, please refer to the User Manual.

Adding a Wi-Fi enabled radio to Radio Management

For security reasons, it is recommended that the first update of the radio over the unsecure "MyNetwork" access point only include the agency's secure network SSID and password. This will transfer the radio to the secure network before provisioning it with the final customized codeplug. It is also recommended that the machine used to host the Device Programmer not contain the Radio Management Server in order to safeguard codeplug data. Please step through the following procedure in order to program the radio out of the box.

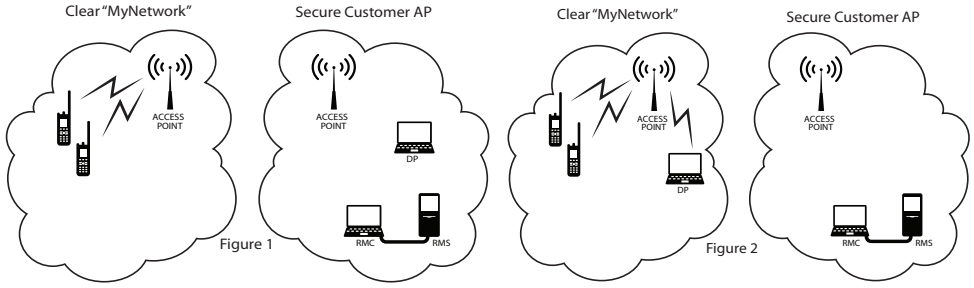

Figure 1

Figure 2

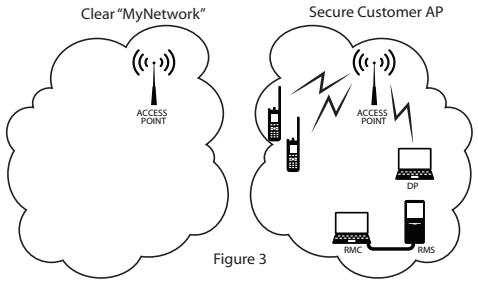

Figure 3

On Secure Wi-Fi Network (Refer to Figure 1):

1 Access the Radio Management Client (RMC) on the secure network.

2 Add radios to Radio Management via the Radio Management Client using the Import .csv function. Please refer to the "Importing Radios to Radio Management" CPS Help topic for information on how to create and import a .csv file.

3 Schedule a read job for these radios via Radio Management Client.

4 In the Device Monitor, download the jobs using the Offline Mode functionality. Please refer to the "Manage Offline Jobs Window" topic in the CPS Help.

5 Disconnect the machine hosting the Device Programmer from the secure Wi-Fi access point, and connect to the "MyNetwork" access point.

On "MyNetwork" (Refer to Figure 2):

6 Power on the radios, this will allow the Device Programmer to read each radio once it has affiliated with the Wi-Fi access point.

7 Once the Device Programmer has read all of the radios, disconnect the machine running the DP from the "MyNetwork" access point and reconnect it to the secure Wi-Fi access point. This will allow the DP and the RM Server to re-synchronize.

On Secure Wi-Fi Network (Refer to Figure 1):

8 Assign a template (refer to the "Manage Templates" CPS Help topic) provisioned only with an SSID and Password/Security settings of the secure Wi-Fi access point to the radios added previously in step 2. Ensure that the new secure SSID is set to a higher priority than "MyNetwork" or remove "MyNetwork" from the template (1 = highest priority). This is to ensure that after the radios are written with the new template, they automatically associate with the secure network instead of the unsecure "MyNetwork".

9 Schedule a write job for these radios via Radio Management Client.

10 In the Device Monitor, download the jobs to the Device Programmer using the Offline Mode functionality. Please refer to the "Manage Offline Jobs Window" topic in the CPS Help.

11 Disconnect the machine running the Device Programmer from the secure Wi-Fi access point, and re-connect it to the "MyNetwork" access point.

On "MyNetwork" (Refer to Figure 2):

12 Once the Device Programmer is re-connected to the "MyNetwork" access point and identifies the connected radios, the Device Programmer will program the radios.

13 Select "Upgrade" on each radio to commit the changes. Once the changes have been committed and the radios reset, they will affiliate with the secure Wi-Fi access point.

14 After the write has been completed, reconnect the Device Programmer to the secure Wi-Fi access point, so that the Device Programmer and the Radio Management Server can re-synchronize.

On Secure Network (Refer to Figure 3):

15 Assign the final template to the radios modified previously in step 7.

16 Schedule a write job for all these radios via Radio Management Client.

17 Write the radios using the secure Wi-Fi access point.

Congratulations! The radios are now accessible via the secure network and can be programmed via Radio Management over the secure Wi-Fi network. Please refer to CPS Help for additional guidance on how to manage the radio fleet via Radio Management and Wi-Fi.

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